DSA - IS
UN O
4) Bigo intro
23/1
Si. Sand and court of there has
big o 10 a way to nathernah carry fact out white
is better, which one sun more afficiently
> The code to son a quackly as possible be a deflicient as possible
so hy his measure case one of the
This is called time complexity. This is called time complexity. The no. af operations
-) we measure it in the no. of operations
> Space complexity: Space complexity is the amount of memory hat something well
mat with all
Code 1 -> 15 min -> more nemoxy
Sammar of the Control and the
Code 2 -> 30 min -> ley memory
5) 0 . 0' 0
5) Big 0: worst care,
12 → omiga () → theta () → omicron (bigo)
12 0
Ω Θ 0
[112 3 4 5 6 7] need to itterate
Ji Ji ti through away
but her care to any come way worse care I to find particular
Therete over array meta big o ho.
partino 9x0
Transport of the second of the

6) Bigo: o(n): List bigo notation
J. S. G. T. WILLIAM A.
A No.
function lag Items (n) ?
for(leti=0; i <n; i+t)="" td="" {<=""></n;>
Consult. log (i)
Consider the season of the sea
O(n) of and Liller is and
LogItem(10) O(10) -> Stwill for 10 Hmer
The part the function the no n and the thir ran p times.
-> o(n) a always a straight line.
-) The no. of operation is going to be proportional to whatever
n is
no of operation.
0(n) 910) tron 0 pd (c)
O(N) 910) 1700 0 pd (6
(Opid) march yno. apn nemoch
0 0
7) Big 0: Orop constants.
your spinost it is
-> Big o has several ways in which we simplify the notation
and the state water care threath
nop constants
no state to make that a bla a that a coloring out it

function log Items(n) { Consultatog Ci for (Nevi=0; i<n; i++) { och Consule. Lay. (1) dos (lajzo; 1<n; iH)[Console loy(1) logIHm (3) O(n) + O(n) =) O(2n) doop anstany -) no matter O(m) 10(2m) ... O(3n) ... O(100n) = O(N) we drop the constant and we say code is O(n) only +) so our first suce for smillifying our big o notation 130p Constant. 8) Big 0: 0(n+2) for (lepico; i<n; i+r)[for (10)=0; jKn; JH) [Consule Lay (1, j) n2 no. of ober [o(n2)] (0(n)) ours -) no. of n